

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,182	10/14/2003	Shek Fai Lau	112440-743	4252
	7590 04/26/200 & LLOYD LLP	7	EXAMINER	
P.O. BOX 1135	;		MAYEKAR, KISHOR ART UNIT PAPER NUMBER	
CHICAGO, IL	60690			
			1753	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	04/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)		$\overline{}$
	10/685,182	LAU ET AL.		
Office Action Summary	Examiner	Art Unit		
	Kishor Mayekar	1753		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ad	ddress	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period value for reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	J. nely filed the mailing date of this of the control (35 U.S.C. § 133).	• •	
Status				
1)⊠ Responsive to communication(s) filed on 24 O	ctober 2005.			
	action is non-final.			
3) Since this application is in condition for allowar closed in accordance with the practice under E	· ·		e merits is	
Disposition of Claims				
4)⊠ Claim(s) <u>1-38</u> is/are pending in the application.				
4a) Of the above claim(s) is/are withdraw	wn from consideration.			
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-38</u> is/are rejected.				
7) Claim(s) is/are objected to.				
8) Claim(s) are subject to restriction and/or	r election requirement.			
Application Papers				
9) The specification is objected to by the Examine	r.			
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.		
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 Ci	FR 1.121(d).	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P1	ΓΟ-152.	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).		
1. Certified copies of the priority documents	s have been received.			
2. Certified copies of the priority documents		on No		
3. Copies of the certified copies of the prior	ity documents have been receive	d in this National	Stage	
application from the International Bureau	` ''			
* See the attached detailed Office action for a list	of the certified copies not receive	d.		
Attachment(s)				
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te		
 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>10/03</u>. 	5) Notice of Informal Page 6) Other:	atent Application		
Delevis and Tarabased Office				

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement filed 24 October 2005 fails to comply with 37 CFR 1.98(a)(1), which requires the following: (1) a list of all patents, publications, applications, or other information submitted for consideration by the Office; (2) U.S. patents and U.S. patent application publications listed in a section separately from citations of other documents; (3) the application number of the application in which the information disclosure statement is being submitted on each page of the list; (4) a column that provides a blank space next to each document to be considered, for the examiner's initials; and (5) a heading that clearly indicates that the list is an information disclosure statement. The information disclosure statement has been placed in the application file, but the information referred to therein has not been considered.

Specification

2. The disclosure is objected to because of the following informalities: the non-updated of the co-pending application serial no. 09/924,624 in paragraph [0001], and the reference to a non-existent Figure 5N in paragraph [0083]. Appropriate correction is required.

Art Unit: 1753

3. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

4. Claim 38 is objected to because of the following informalities: the term "and" is needed between the last two structures and the term "and" before "wherein said member scrapes" needs to be deleted. Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 3, 20, 24, 32 and 34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 3, the recitation "the distance" lacks antecedent basis.

In claim 20, the recitation "the distance" lacks antecedent basis.

In claim 24, the recitation "the distance" lacks antecedent basis.

In claim 32, the recitation "a flexible length extending" is incomplete or confusing.

In claim 34, the recitation "said collector electrode" lacks antecedent basis.

Application/Control Number: 10/685,182 Page 4

Art Unit: 1753

Claim Rejections - 35 USC \$ 102 and \$ 103

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the

invention was made.

9. Claims 1-4, 6, 7, 18-24 and 34-38 are rejected under 35 U.S.C. 102(b) as

anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Moller et al.

(US 1,469,275). Moller's invention is directed to a device for electrical precipitation of

suspended particles from gases. Moller discloses that the device comprises a housing, a

first electrode 2, and a movable second electrode 8,9 with an attached cleaning member

25 as claimed (Figs. 1-4 and page 2, lines 11-28). As to the device for air conditioner,

since Moller discloses that the device is for gas purification (page 1, lines 49-53) and for

electrical precipitation of suspended particles from gases, it is inherently in Moller. If not, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have employed Moller's gas purification device for condition air. Further, it has been held on the intended use of a device that "apparatus claims cover what a device is, not what a device does", Hewlett-Packard Co. v. Bausch & Lomb Inc., 15 USPQ 2d 1525.

As to the subject matter of claim 2 or 7, Moller discloses it in Figs. 3 and 4.

As to the recited voltage generator of claim 18, since Moller's first and second electrodes are separated from each other and Moller's device is for electrical precipitation of suspended particles from gases, Moller's device inherently has the voltage generator for the electrical precipitation.

Double Patenting

10. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double

patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

11. Claims 5, 8-17 and 25-33 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1, 2, 5, 8, 10 and 12-14 of U.S. Patent No. US Patent No. 6,350,417. Although the conflicting claims are not identical, they are not patentably distinct from each other because the patent claims, which is narrower in scope than that of the above claims, claim an electro-kinetic transporter-conditioner comprises the recited emitter electrode, removable collector electrode, high voltage generator member connected to the collector electrode, means for frictionally cleaning flexible (or length of material having a slit) and vane, rendering them obvious over each other.

Conclusion

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kishor Mayekar whose telephone number is (571) 272-1339. The examiner can normally be reached on Monday-Thursday.

Application/Control Number: 10/685,182 Page 7

Art Unit: 1753

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam Nguyen can be reached on (571) 272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kishor Mayekar Primary Examiner Art Unit 1753